

PROJECTED GIMBAL POINT DRIVE

ABSTRACT OF THE DISCLOSURE

A projected gimbal point drive system is disclosed. The projected gimbal point
5 drive system includes a spindle capable of applying a torque, and having a concave spherical
surface formed on its lower portion. Further included is a wafer carrier disposed partially
within the lower portion of the spindle. The wafer carrier has a convex spherical surface
formed on a surface opposite the concave spherical surface of the spindle. In addition, a
drive cup is included that is disposed between the spindle and the wafer carrier. The
10 drive cup has a concave inner surface and a convex outer surface, and allows the wafer
carrier to be tilted about a predefined gimbal point. In this manner, torque can be applied
without affecting the gimbal action.